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Water Supply Outlook For Idaho



**SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE**

Cooperating with

**IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES**

AS OF
MAY 1, 1981

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Snow surveyors making special measurements of the snowpack near Mt. St. Helens Volcano, Washington, April 1980.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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BOISE, IDAHO

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1981

In general, 1981 water supplies are expected to be adequate on watersheds having storage facilities and in those areas utilizing supplemental water from ground water pumping. Shortages can be expected on many small drainages without storage with diversions direct from stream channels.

Runoff is forecast to be below to well below normal statewide, ranging from lows of 35-45 percent of average for all drainages south of the Snake River to a high of near 70 percent of normal in the extreme northern portion of the state. In the central part of the state the Big Lost River watershed appears to be in the best condition and is forecast to flow near 70 percent of normal during the spring and summer runoff season.

April weather brought much needed precipitation to many areas of Idaho. A storm on Easter brought an inch or more rain to a large area from southwestern Idaho eastward along the Snake River.

Elsewhere in Idaho precipitation averages were well above normal except for a small area in the central mountains.

Temperature across Idaho averaged within a couple degrees of average during April.

The mountain snowpack, deficient throughout the winter, is melting at a normal rate, aided by normal temperatures and spring rains even at high elevations.

Water users should practice good water management, conserving as much water as possible for carryover into the 1982 season. If the winter of 1981-82 has a deficient snowpack in conjunction with the below normal runoff expected in 1981, a very serious drought will be experienced in 1982.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter April 1981		Fall - Winter Nov. 80 - April 81	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	1.95	+ 0.33	16.47	+ 1.46
Flathead	1.71	+ 0.07	11.51	- 0.86
Clark Fork	1.16	- 0.17	7.63	- 1.70
Pend Oreille-Spokane	3.10	+ 1.28	18.22	- 1.15
Upper Snake	1.78	- 0.01	8.73	- 3.17
Snake River Plain	1.67	+ 0.68	5.78	- 0.29
Salmon-Payette-Boise	1.61	+ 0.18	13.21	- 0.01
Clearwater	2.73	- 0.39	18.20	- 2.80
Owyhee-Malheur	0.95	+ 0.20	6.30	- 0.12

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

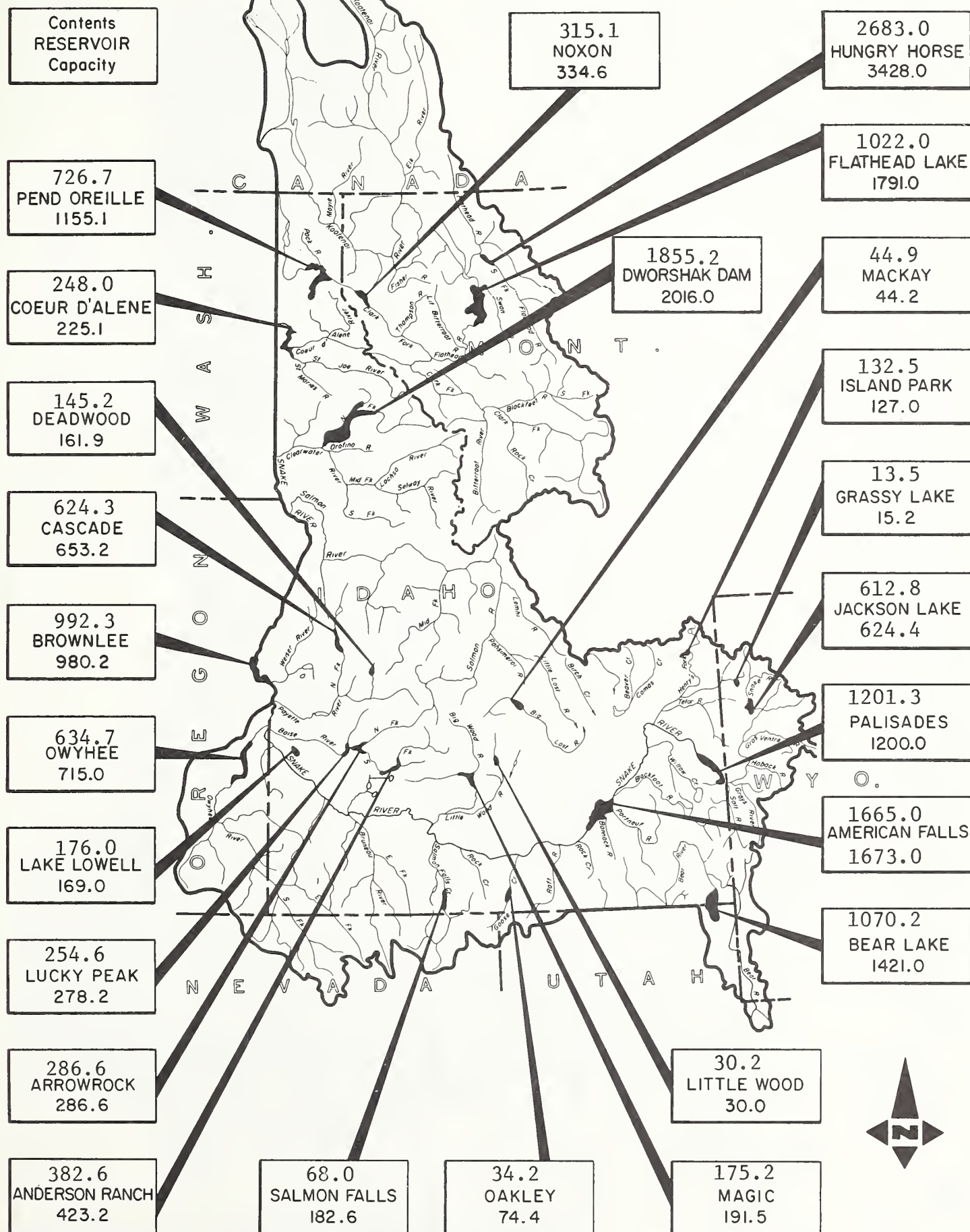
2/ Departure from 15-year (1963-1977) drainage division average.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1981

50 0 50 100 150
SCALE IN MILES



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2683.0	2428.0	1896.0
Flathead	1791.0	1022.0	953.2	915.3
Pend Oreille	1155.1	726.7	435.9	483.0
Noxon	334.6	315.1	289.6	141.7
<u>Spokane</u>				
Coeur d'Alene	225.1	248.0	264.5	238.4
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	612.8	553.4	572.3
Palisades	1200.0	1201.3	941.4	666.3
American Falls	1673.0	1665.0	1669.1	1488.4
Island Park	127.0	132.5	139.8	126.3
Grassy Lake	15.2	13.5	12.3	11.1
Brownlee	980.2	992.3	786.9	406.4
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	34.2	47.9	37.8
<u>Salmon Falls Creek</u>				
Salmon Falls	182.0	68.0	75.3	81.0
<u>Big Lost</u>				
Mackay	44.2	44.9	35.7	34.0
<u>Big Wood</u>				
Magic	191.5	175.2	125.8	172.7
<u>Little Wood</u>				
Little Wood	30.0	30.2	28.6	24.5
<u>Fish Creek</u>				
Carey Valley	14.4	12.3	12.9	--
<u>Boise</u>				
Anderson Ranch	423.2	382.6	317.0	289.3
Arrowrock	286.6	286.6	284.5	213.2
Lucky Peak	278.2	254.6	208.3	134.1
Lake Lowell (Deer Flat)	169.0	176.0	164.0	151.2
<u>Owyhee</u>				
Owyhee	715.0	634.7	700.0	591.2
<u>Payette</u>				
Cascade	653.2	624.3	405.0	330.9
Deadwood	161.9	145.2	83.3	98.2
<u>Weiser</u>				
Mann Creek	11.1	11.3	11.4	--
<u>Clearwater</u>				
Dworshak	2016.0	1855.2	1395.8	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1070.2	1116.1	1095.0

PROSPECTIVE STREAMFLOW

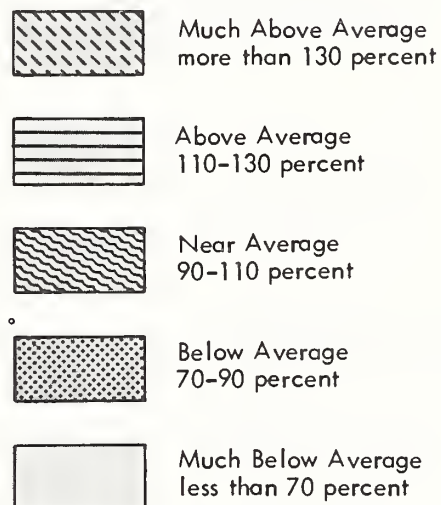
Based on Snow Surveys made on approximately

MAY 1, 1981

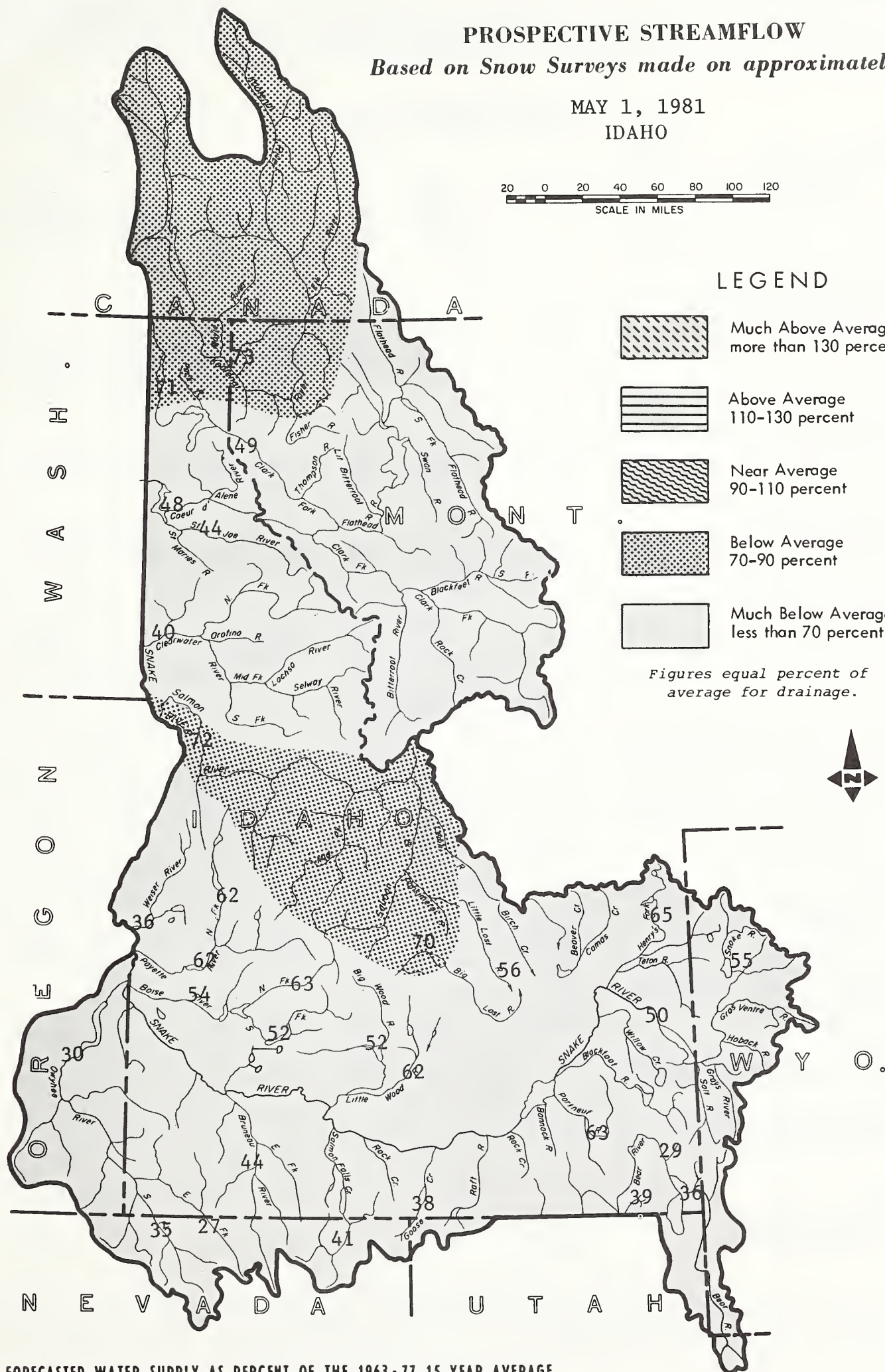
IDAHO

20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND



Figures equal percent of
average for drainage.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

<u>KOOTENAI RIVER</u>						
Leonía	(at)	5980	73	May-Sep	--	8116
		5110	73	May-Jul	--	6966
		3890	72	May-Jun	--	5402

<u>PEND OREILLE RIVER</u>						
<u>Clark Fork River</u>						
Whitehorse Rapids	(at)	5940	49	May-Sep	--	12207
		5260	48	May-Jul	--	10945
		4380	48	May-Jun	--	9059

<u>Priest River</u>						
Priest River	(nr)	516	71	May-Sep	--	723
		613	73	Apr-Jul	--	841

<u>SPOKANE RIVER</u>						
Post Falls	(at)	975	48	May-Sep	--	2052
<u>St. Joe River</u>						
Calder	(at)	515	49	May-Sep	--	1053
		495	50	May-Jul	--	984

SNAKE RIVER BASIN

<u>SNAKE RIVER - MAIN STEM</u>						
Moran	(at)	500	55	Apr-Sep	--	903
Palisades Inflow		2000	52	Apr-Sep	--	3863
Heise	(nr)	1900	50	May-Sep	--	3824
Blackfoot	(nr)	2195	53	May-Jul	--	4143

<u>Henrys Fork</u>						
Ashton	(nr)	410	65	May-Sep	--	634
Rexburg	(nr)	875	63	May-Sep	--	1387

<u>Portneuf River</u>						
Topaz	(at)	45	63	May-Sep	--	71

<u>Oakley Reservoir Inflow</u>		9	38	May-Sep	--	24
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<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	26	41	May-Sep	--	63
		24	41	May-Jul	--	58

<u>Bruneau River</u>						
Hot Springs	(nr)	80	44	May-Sep	--	183

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Little Lost River</u>						
Howe	(nr)	22	56	May-Sep	--	39
Wet Creek	(bl)	21	57	May-Sep	--	37
<u>Big Lost River</u>						
Howell Ranch	(at)	150	70	May-Sep	--	214
		100	70	May-Jun	--	144
Mackay	(nr)	130	68	May-Sep	--	191
<u>Big Wood River</u>						
Magic Reservoir		120	52	May-Sep	--	229
Inflow		110	52	May-Jul	--	213
<u>Little Wood River</u>						
Carey	(nr)	50	62	May-Sep	--	80
<u>Boise River</u>						
Twin Springs	(nr)	462	63	Apr-Sep	--	733
		426	63	Apr-Jul	--	676
Boise	(nr)	717	54	May-Sep	--	1326
<u>South Fork</u>						
Anderson Dam	(at)	320	52	Apr-Sep	--	621
<u>Owyhee River</u>						
Gold Cr., Nev.	(nr)	6	27	Apr-Jul	--	22
Owyhee, Nev.	(nr)	28	35	Apr-Jul	--	80
Lake Owyhee		67	30	May-Sep	--	224
net inflow		59	30	May-Jul	--	197
<u>Payette River</u>						
Horseshoe Bend	(nr)	975	62	May-Sep	--	1567
<u>North Fork</u>						
Cascade	(at)	297	62	May-Sep	--	480
Banks	(nr)	370	62	May-Sep	--	599
<u>Weiser River</u>						
Weiser	(nr)	98	36	May-Jul	--	276
<u>Salmon River</u>						
Whitebird	(at)	4730	72	May-Sep	--	6581
<u>Clearwater River</u>						
Spalding	(at)	2830	40	May-Sep	--	7081

(c) Assuming normal meteorological conditions.

† 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

GREAT BASIN

<u>BEAR RIVER</u>						
Harer	(at)	98	36	May-Sep	--	271
<u>Montpelier Creek</u>						
Montpelier	(nr)	3.5	29	May-Sep	--	12
<u>Cub River</u>						
Preston	(nr)	19	39	May-Sep	--	49

(c) Assuming normal meteorological conditions.

[†] 1963-1977 period.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Average
NAME	Elevation					
Above Burke	4100	4/29	14	4.6	6.3	19.7*
Atlanta Summit	7600	4/30	42	17.8	32.8	36.6
Bad Bear	4940	5/1	0	0.0	0.0	6.8
Banner Summit	7040	4/30	43	17.8	26.8	--
Bear Basin	5350	4/29	22	7.2	14.0	--
Bear Canyon	7900	4/30	31	12.8	17.4	18.9*
Bear Creek (A)	8040	4/29	27	9.0	15.2	21.2*
Bear Mountain	5400	4/27	98	46.4	46.8	67.7*
Benton Meadow	2370	4/29	0	0.0	0.0	0.0*
Benton Spring	4920	4/29	16	6.5	4.0	16.7
Big Creek Summit	6580	4/29	61	25.0	39.7	37.8
Big Springs	6400	4/29	0	0.0	4.4	17.7
Blue Ridge	6780	4/29	0	0.0	--	--
Bogus Basin	6340	5/3	6	2.3	17.8	24.0*
Bogus Basin Raod	5540	5/3	0	0.0	0.0	0.4*
Bone	6200	4/29	0	0.0	--	--
Boulder Creek	5440	4/30	1	0.5	4.8	16.8
Breezy Saddle	5010	4/29	21	8.3	8.9	--
Brockman Station	6430	4/29	0	0.0	--	--
Brundage Mountain	7560	4/29	80	37.5	46.0	52.4*
Buck Meadows	5650	4/30	30	11.6	14.6	29.9*
Cayuse Airstrip	3500	4/30	0	0.0	0.0	1.0*
Chilco Ridge	3650	4/29	0	0.0	--	--
Conie Ridge	3900	4/29	0	0.0	--	--
Coolwater Mountain	6040	4/30	52	18.1	22.8	35.5*
Copper Basin	7640	4/30	0	0.0	5.6	8.5*
Copper Ridge	4820	4/30	0	0.0	--	25.7
Corner Creek	3150	4/29	0	0.0	--	--
Cozy Cove	5380	4/30	0	0.0	4.3	10.7*
Crater Meadows	5960	4/30	58	22.0	28.8	47.8
Crawford Ranger Station	4860	4/29	0	0.0	0.0	0.4
Crooked Fork	3610	4/30	0	0.0	0.0	3.5*
Cub River Ranger Station	5450	4/24	0	0.0	0.0	0.0
Darby Canyon	8250	5/1	0	0.0	--	25.5*
Deadline	6900	4/28	20	6.5	--	21.7*
Deadwood Airstrip	5360	4/30	0	0.0	5.4	8.6*
Deadwood Summit	6860	4/30	70	32.5	44.8	48.2*
Dollarhide Summit	8420	4/30	41	16.0	23.2	24.3*
Elk Butte	5550	4/29	22	8.1	11.4	34.1
Emigrant Summit	7390	4/30	9	3.3	19.4	24.9*
Fish Lake Airstrip	5650	4/30	49	20.1	30.3	41.4*
Forty-nine Meadows	4830	4/29	20	7.1	7.2	26.9
Fourth of July Summit	3200	4/30	0	0.0	--	0.8
Franklin Basin	8040	4/24	30	11.7	23.0	--
Freds Mountain	8150	4/30	32	11.3	14.3	21.1*
Galena	7440	4/29	16	6.2	10.7	15.9
Galena Summit	8780	4/29	46	18.0	21.2	26.9
Garfield Ranger Station	6560	4/30	0	0.0	2.2	2.6*
Gibbons Pass	7100	4/27	45	17.2	13.9	25.3
Giveout	6860	4/29	0	0.0	6.2	6.9*
Goat Creek	8880	4/28	29	10.2	18.3	20.8
Goat Lake	6500	4/30	76	27.7	37.0	51.9*
Graham Guard Station	5690	4/30	0	0.0	4.7	--
Graham Ranch	6270	4/29	8	3.3	7.8	9.2*
Granite Peak	6000	4/29	66	23.1	28.5	47.6*
Grassy Lake	7265	4/29	38	17.2	23.5	36.4
Halverson Creek	4850	4/27	80	41.1	38.8	43.5*
Hell Creek (Lava Creek)	7350	4/29	0	0.0	--	--
Hemlock Butte	5810	4/30	57	21.0	26.6	52.4
Hilts Creek	8000	4/29	28	10.8	6.6	--
Hoodoo Basin	6000	5/4	77	33.4	44.0	55.6*
Hoodoo Creek	5900	5/4	68	30.1	39.8	52.0
Howell Canyon	7980	4/80	10	3.1	18.8	23.7*
Hyndman Creek	7440	4/30	11	4.6	--	--
Island Park	6290	4/28	0	0.0	0.0	11.4
Jackpine Creek	7350	5/1	17	6.5	9.9	24.1
Jackson Peak	7070	4/30	44	19.3	30.7	26.8*
Kellogg Peak (A)	5560	4/30	0	0.0	--	--
Kit Carson Pasture	4950	4/27	0	0.0	0.0	--
Lake Fork	5290	5/2	0	0.0	8.2	14.1*
Lemhi Pass	7480	5/3	0	0.0	0.0	9.2
Lemhi Ridge	8100	5/3	9	2.9	4.8	10.6*
Little Beaver	6970	4/29	0	0.0	7.9	11.4*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.

(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Average
NAME	Elevation					
Lolo Pass	5240	4/30	22	9.3	17.1	31.4
Lookout	5140	4/29	37	14.2	17.4	35.4
Lost Lake	6110	4/29	82	31.4	34.7	62.5
Lost Wood Divide	7900	4/30	33	13.1	18.6	24.8*
Lower Home Canyon	7640	4/29	0	0.0	7.0	11.1*
Lower Sands Creek	3120	4/29	0	0.0	6.4	18.3
Magic Mountain	6880	4/28	21	8.5	9.1	18.8*
Mascot Mine	7780	4/30	20	7.4	13.3	15.5*
McRenolds Reservoir	6720	5/1	0	0.0	0.0	19.8*
Mill Creek Summit	8800	4/29	44	15.2	21.2	25.9
Mink Creek	6410	4/26	20	5.8	--	--
Montpelier Creek	6540	4/29	0	0.0	0.0	1.2*
Moonshine	7440	4/30	5	1.8	--	9.6*
Moore's Creek Summit	6100	5/1	30	12.4	30.0	32.6
Moose Creek	6200	4/30	19	5.0	4.2	16.6*
Morgan Creek	7600	4/29	17	5.8	5.4	13.9
Mosquito Ridge (A)	5200	4/30	50	18.6	--	--
Mount Baldy	8920	4/29	49	17.8	21.4	23.6*
Mountain Meadows	6360	4/30	27	8.9	9.1	26.3*
Muldoon	6320	4/30	0	0.0	0.0	0.6*
Nez Perce Pass	6570	4/27	17	6.3	4.8	17.4
Packsaddle Springs	8200	5/1	34	14.6	--	--
Phillips Bench	8200	4/27	50	18.4	23.7	31.5*
Pierce Ranger Station	3080	5/1	0	0.0	0.0	1.9
Pine Creek Pass	6810	4/30	0	0.0	0.0	14.8
Pole Creek Ranger Station	8360	4/28	36	13.7	18.6	25.8*
Rammel Ridge	8240	5/1	45	20.0	--	--
Rock Flat Summit	5310	4/29	15	5.8	12.8	17.9
Roland Summit	5120	4/30	6	2.3	--	--
Sage Creek Saddle	4080	4/29	0	0.0	--	--
Savage Pass	6170	4/30	43	17.3	18.6	29.3*
Sawmill Canyon	7000	4/30	0	0.0	--	3.8*
Sawtell Mountain	8720	4/29	64	26.9	33.5	37.1*
Schweitzer Bowl	4800			Plowed Out		
Schweitzer Ridge	6200	5/1	66	30.4	42.8	47.5*
Secesh Summit	6520	5/3	33	14.4	34.3	36.9*
Seventy-six Creek	7100	4/30	0	0.0	0.0	4.7*
Shanghai Summit	4570	4/30	0	0.0	1.6	23.1
Sheep Mountain	6570	4/29	0	0.0	--	--
Sherwin	3200	4/30	0	0.0	0.0	7.2*
Slug Creek Divide	7230	4/29	0	0.0	7.9	17.0*
Smith Creek	4800	4/29	79	36.8	32.5	47.4
Somsen Ranch	6840	4/29	0	0.0	4.5	--
South Mountain	6500	4/30	0	0.0	9.2	7.1*
Squaw Flat	6240	5/2	15	5.8	--	--
Squaw Meadow	5900	5/3	32	14.5	36.4	36.1*
State Line	6660	4/30	0	0.0	0.0	10.7
Stickney Mill	7430	4/30	0	0.0	6.2	6.5*
Sunset (A)	5540	4/30	58	22.3	--	--
Swede Peak	7640	4/30	0	0.0	14.4	16.7*
Targhee Pass	6980	4/29	0	0.0	0.0	16.2*
Teton Pass W.S.	7740	4/27	41	15.8	17.4	28.9*
Tex Creek	6650	4/29	0	0.0	--	--
Trinity Mountain	7770	4/30	51	20.9	43.9	44.1*
Upper Home Canyon	8560	4/29	25	8.8	20.1	24.5*
Valley View	6680	4/29	T	T	0.0	14.5
Vienna Mine	8960	4/30	60	26.7	40.8	39.9*
Wet Creek Summit	7680	4/29	18	7.2	3.2	13.8*
Whiskey Flat	6960	4/29	0	0.0	0.0	4.5*
White Elephant	7710	4/29	31	12.5	15.7	--
Willow Flat	6070	4/24	0	0.0	2.3	5.5*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
 (A) Aerial observation Water content estimated.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

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